

STATE OF ILLINOIS  
ILLINOIS COMMERCE COMMISSION

**RECEIVED**  
SEP 9 2002

Petition for permission to make a major change in crossing protection, or to install new protection under 92 Illinois Administrative Code 1535.400 (d).

X-11862  
701-0070

Illinois Commerce Commission  
RAIL SAFETY SECTION  
Date: August 30, 2002

To the ILLINOIS COMMERCE COMMISSION:

The petitioner Norfolk Southern Railway Company shows

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400 (d) adopted by this Commission.
- (3) That the location of the crossing, nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are to:

Modification of Grade Crossing Warning Devices requested by Illinois Commerce Commission

at: Diamond St. in Jacksonville, Morgan County, Illinois, DOT: 479 411G, MP. DH-448.40

File No. 061-04.321

Project No. 04.0503

- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

**WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.**

Norfolk Southern Railway Company

By R. H. Ray  
R. H. Ray, Administrator  
Highway Grade Crossings

Thomas W. Ambler

(Attorney for Petitioner)

Norfolk Southern Corporation  
Three Commercial Place  
Norfolk, VA 23510-2191

(Attorney's Address)

**Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Illinois Administrative Code 1535.400(d).**

1. Name of Railroad Company Norfolk Southern Railway Company
2. Crossing Number 479 411G
3. Village or City Jacksonville
4. Name of Street or Highway Diamond Street
5. Public Agency Maintaining Highway City
6. Protection now established:  
Automatic Flashing Light Crossing Signals with Bell and Crossbucks
7. Protection desired:  
Modify grade crossing warning devices to Flashing Light Crossing Signals with Gates  
controlled by constant warning time detection devices.
8. Number of main tracks One Other tracks None
9. Number of passenger movements:  
6 a.m. to 6 p.m. None 6 p.m. to 6 a.m. None
10. Number of freight train movements:  
6 a.m. to 6 p.m. 7 6 p.m. to 6 a.m. 11
11. Approximate number of switch movements:  
6 a.m. to 6 p.m. 1 6 p.m. to 6 a.m. 1
12. Maximum speed of trains at crossing on each track in each direction:  
North/East 50 M.P.H.  
South/West 50 M.P.H.
13. Passenger platforms served by tracks within the limits of track circuits, if any None

14. Where automatic signals or gates are proposed, approximate number of train or engine movements daily which would cause false indications or operation:

None

15. Nature and approximate amount of street or highway traffic over crossing:

1,400 AADT including cars and trucks

16. In addition to the information listed hereinbefore in Form 3, attach a track plan or plat of the proposed crossing. This plan should show:

- (a) Width and surface of highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (side lights, cantilevers, etc., if any).
- (e) Show the length of each operating track section within the control limits of the crossing protection and its function.

#### ADDITIONAL INFORMATION

Drawing attached for question no. 16

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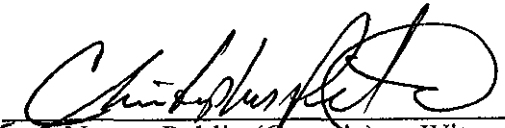
(File Original and Two Duplicates)

**VERIFICATION**

I, R. H. Ray, first being duly sworn upon oath depose and say that I am  
Administrator - Highway Grade Crossings, of Norfolk Southern Railway Company, a  
Virginia corporation; that I have read the above and foregoing petition by me subscribed and know the  
contents thereof; that said contents are true in substance and in fact, except as to those matters stated upon  
information and belief, and as to those, I believe same to be true.

  
Administrator - Highway Grade Crossings

Subscribed and sworn to before me this 30  
day of August 20 02.

  
Notary Public (Georgia) or Witness

My Commission Expires: \_\_\_\_\_

19-Aug-02

**Detailed Estimate for Grade Crossing Warning Devices**

City/Stat JACKSONVILLE, IL  
MilePost: DH-448.4  
State Proj.  
S&E Proj. 04.0503  
Man Days: 104

Road: DIAMOND ST.  
DOT/AAR: 479411G  
County: MORGAN  
AFE:  
File 061-04.321

**\*\*\*Purchases - Other\*\*\***

Meals and Lodging:	\$8,290.00	
Rental of Equipment:	\$18,120.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 26 Days)		
Construction Supervision Vehicle:	\$340.00	
Contingencies:	\$600.00	
Purchases - Other Total:		\$27,350.00

**\*\*\* Material and Additives\*\*\***

Material Cost:	\$117,010.00	
Sales and Use Tax:	\$5,850.00	
Material Handling Freight:	\$11,120.00	
Material Total:		\$133,980.00

**\*\*\*Labor and Additives\*\*\***

Labor Cost:	\$21,320.00	
(4 man crew at \$820.00 a day for: 26 days)		
Payroll Tax & Overheads:	\$18,460.00	
Preliminary Engineering:	\$19,170.00	
Construction Supervision:	\$6,020.00	
Labor Total:		\$64,970.00
Subtotal		\$226,300.00
Credit:		\$0.00
(Salvage/Scrap)		
Project		\$226,300.00

Estimated on: 19-Aug-02

Estimated by: ndr3j

**Estimate valid for 1 year from date of estimate**

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	JACKSONVILLE
Road:	DIAMOND ST.
Milepost:	DH-448.4
Drawing Number:	SFDH44840
State Project Number:	
County:	MORGAN
A A R Number:	479411G
Project Number:	04.0503
File Number:	061-04.321
A F E Number:	
Store Number:	
Supervisor:	D.J. HOLLINGSEAD
Tax Code:	1200
Vendor to supply the following copies after pricing: 1 Set - Material Management with original invoice 2 Sets - with plans shipped in car with material 1 Set - S&E Gen. Supt. Construction w/ copy of invoice	

19-Aug-02

Store No.: P.O. Number: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Date	Quantity Date	Quantity Date	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	\$4.82	\$14.46	AARDOT NUMBER PLATE/DECAL ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY STRAN						
3	670-010827-4	EA	\$238.23	\$714.68	AND GATE, SAFETRAN A90975						
2	670-001321-4	EA	\$246.66	\$493.32	ARM, GATE FIBERGLASS-ALUMINUM 17-24 FT., L&W OR US&S OR SAFETRAN 076600-240017 OR						
48	165-021628-4	EA	\$7.61	\$365.48	ARRESTER, LIGHTNING CLEARVIEW W/O BASE USS PART N451552-0201 SAFETRAN PART @022485-28X CR02-025565						
19	105-871901-4	EA	\$154.22	\$2,930.11	BATTERY, GNB 265AH MODEL 50A11 SINGLE CELL 2.25 VOLTS						
1	670-503047-4	EA	\$185.75	\$185.75	BELL, CROSSING ELECTRONIC GENERAL SIGNAL, EB-3-360-5 CR 02-044350						
4	670-005125-4	EA	\$2.11	\$8.43	BLOCK, TERMINAL BAKELITE FOR MOUNTING LIGHTING ARRESTOR EQUALIZER OR RESISTANCE UNIT						
25	670-058281-4	EA	\$11.25	\$281.18	BLOCK, UNIVERSAL TERMINAL OF 12 SINGLE POST SAFETRAN 023390-11X, W-C 2508-112E W-NUTS & WASHERS CR 02-048757						
2	670-561375-4	EA	\$1,201.20	\$2,402.40	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 28' AND LESS						
2	670-000977-4	EA	\$57.98	\$115.95	BRACKET, HIGH WIND SUPPORT HARMON @54-00139, SERRMI @50044 SAFETRAN 076203-518X						
1200	465-292862-4	LF	\$1.00	\$1,203.48	CABLE, U-2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR						
300	465-292929-4	LF	\$3.00	\$899.58	CABLE, U.G. 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
800	465-939422-4	LF	\$2.56	\$2,046.80	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
1800	465-292614-4	LF	\$1.28	\$2,302.74	CABLE, UG 18 PAIR NO. 19 JELLY FILLED, USED FOR CODE CABLE AT AREAS ELECTRONIC CODING EQUIP.						

Location: JACKSONVILLE IL S&amp;E Proj. No.: 04.0503

AFE No.: Drawing No.: SFDH44840

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Store No.: P.O. Number:

Date Required: Date Shipped:

Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
1300	465-942483-4	LF	\$3.30	\$4,283.89	CABLE, UG 19 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL				
1200	465-277674-4	FT	\$2.80	\$3,364.92	CABLE, UG 3CD NUMBER 6 FOR HIGH CURRENT AC POWER OKONITE 206-11-6 243				
1	670-477629-4	EA	\$478.44	\$478.44	CHARGER, BATTERY CRAGG MODEL 20 EC-12V 20 AMP TEMP COMPENSATED				
80	165-544477-4	FT	\$2.00	\$159.65	CONDUIT, 4"x10' PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4				
6	165-299316-4	EA	\$16.89	\$101.32	CONDUIT, PVC CASE OUTLET 4 IN. X 29-1/2 IN. SCHEDULE-80 WITH 4 IN. COUPLING, CARLON E940N,				
8	670-090450-4	EA	\$49.62	\$397.00	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W				
8	670-486646-4	EA	\$40.66	\$325.28	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W				
2	670-793404-4	EA	\$838.38	\$1,676.76	COUNTERWEIGHT PRAGE, 17-24 GATE STRAN S-MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS				
6	670-760012-4	EA	\$34.90	\$209.39	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. ===TO COVER 2 LAMPS===				
3	670-080337-4	EA	\$0.73	\$2.18	DECAL, X'ING SIGNAL MALFUNCTION 11" X 4", GATE MOUNT				
3	670-075444-4	EA	\$0.54	\$1.63	DECAL, X'ING SIGNAL MALFUNCTION 6" X 6", MAST MOUNT				
1	670-986650-4	EA	\$361.26	\$361.26	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER				
4	670-228165-4	EA	\$10.73	\$42.90	EQUALIZER, SAFETRAN 022700-1X LESS BASE, MODERN NO. 700-1 SHUNT ARRESTER TRACK CIRCUITS CR 02-197950				
1	670-000004-4	EA	\$281.44	\$281.44	FCC LICENSE FOR MONITOR/RADIO				

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Location: JACKSONVILLE IL S&amp;E Proj. No.: 04.0503

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Date Required:

Date Shipped:

Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
4	670-000003-4	EA	\$255.85	\$1,023.40	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST				
2	670-015231-4	EA	\$381.69	\$763.37	FOUNDATION, DIXIE, S-2 GATE 56" ASSEMBLED				
2	670-477991-4	EA	\$292.81	\$585.61	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS, 200#4WIRE, 12 4 WIRE ONE-SHOTS. ERICO SBK206				
2	670-123298-4	EA	\$225.10	\$450.19	KIT, HARDWARE SUPPLIES REQUIRED X'ING PKGAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, P GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, JNE CAN BLUE MARKING PAINT ETC...				
2	670-745798-4	EA	\$490.26	\$980.52	LAMP ASSY, 4" GRD. MAST MTG. 1W IND. 20" BKGRD, FLX-12 W/BULB STRAN #042003-484XNS				
2	670-764166-4	EA	\$907.09	\$1,814.18	LAMP ASSY, 5" MAST MTG. 2W IND. 20" BKGRD, FLX-12 W/BULB STRAN #042003-487XNS				
6	165-643547-4	EA	\$8.43	\$50.60	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1SC CLEAR RWY SIGNAL UJ-71463 GE				
70	670-440826-4	EA	\$1.01	\$70.92	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662				
6	255-590880-4	EA	\$15.62	\$93.70	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"				
2	610-166588-4	EA	\$1,084.13	\$2,168.26	MAST, 5" ALUMINUM (0&0) FOR LIGHT UNIT AND BRACKET WITH DBL. JCT. BOX BASE #070519-203X-2				
2	670-000985-4	EA	\$182.36	\$364.72	MAST, SIDE LIGHT BRACKET F/5" MT. HARMON @225834+XXX, SAFETRAN 041442-26X,				
2	670-521147-4	EA	\$2,932.81	\$5,865.62	MECHANISM, GATE MODEL SAO, WITH CONTACT HEATER, COMPLETE W/RELAY STRAN # 074000-W00090				
2	670-000001-4	EA	\$316.23	\$632.46	MISC. MATERIAL				
6	670-014233-4	EA	\$980.09	\$5,880.54	MODULE, DAX FOR 3000 GCP SAFETRAN #80016				

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Location: JACKSONVILLE IL S&amp;E Proj. No.: 04.0503

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Store No.: P.O. Number:

A/E No.: Date Required: Date Shipped: Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
1	670-839472-4	EA	\$2,901.80	\$2,901.80	MONITOR, HWY XING, (DEMA-NS8-5M) W/ DUAL SENSOR & RITRON RADIO, FREQ. COMBO #5, CH 1 = 160.440MHZ, CH 2 = 161.250MHZ, INCLUDES WIRING AND INSTALLATION				
4	670-001347-4	EA	\$57.98	\$231.90	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR				
1	670-644144-4	EA	\$180.12	\$180.12	PANEL, SAFETRAN# 91042-19 CABLE TERMINATION PANEL WITH 19 STRAPPED AAR TERMINALS				
2	670-278068-4	EA	\$307.02	\$614.04	PANEL, SAFETRAN# 91044-01 VITAL AND GATE PANEL ASSY (INC 1 AND GATE) FOR MTG. 3 AND GATES				
2	610-719870-4	EA	\$135.90	\$271.80	PEDESTAL ASSEMBLY, ARMORCAST P/N P6001205-NS, YELLOW 10"X11"X29" POLYETHYLENE INCL 45" WITH TERMINAL BLOCK				
1	670-514605-4	EA	\$8.43	\$8.43	PINNACLE, W-C SECT 1-11, 4"x8, 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X				
12	670-555609-4	EA	\$41.11	\$493.32	PLUGBOARD, TYPE B-1 GRS A62-506 OR HARMON @/062-506 OR				
1	670-973480-4	EA	\$7,665.27	\$7,665.27	PREDICTOR, DUAL FREQ. 3000 2 TRACK, SAFETRAN #80200-102-0 NO ISLAND, W/PROCESSOR 80214				
1	165-018451-4	EA	\$128.60	\$128.60	PROTECTOR, 12VDC, AAR MOUNT LPC 10593-9 LIGHTNING PROTECTION CORP.				
4	165-103293-4	EA	\$44.47	\$177.87	PROTECTOR, LIGHTNING & SURGE LPC 10560-51, 3 ELECTRODE WITH SPADE TERMINAL				
2	670-166332-4	EA	\$140.72	\$281.44	PROTECTOR, SURGE 3-WIRE PLUS GRD 120/240 JOSLYN ELECTRONICS 1259-21-A FOR I/S AC BREAKER PANEL				
1	670-015628-4	EA	\$266.80	\$266.80	RACK, BARE ALUMINUM, FOR MTG. XING EQUIPMENT.				
6	465-002899-4	EA	\$20.88	\$125.26	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES				
10	670-456936-4	EA	\$150.00	\$1,500.00	RELAY RACK, SWING, FARADAY SELTER FOR ONE RELAY, SSFETRAN P/N T15331				

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Location: JACKSONVILLE IL

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Store No.:

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Date Required:

Date Shipped:

Vendor: Safetran Systems Corp.

Qty.	Class-Item-CD	UI	Price per item	Total Price	Item Description	Quantity Shipped	Quantity Installed	Quantity Returned (Credit)	Special Instructions
12	670-707995-4	EA	\$356.29	\$4,275.44	RELAY, TYPE B1, NEW LINE, 900 OHMS, .008 AMPERES GRS A62-308 OR SAFETRAN @400003				
2	670-786834-4	EA	\$6,706.00	\$13,412.00	SHELTER, BARE 6X6 ALUMINUM W/FARADAY, SAFETRAN P/N 058400-66-78, W/ADJ. PIERS 4 GND LUGS W/48" #4 SOLID COPPER PIGTAIL, 2 SHELVES, 3 TAG BOARDS/SHELF, AND ONE 3 FARADAY SHIELD				
8	670-793474-4	EA	\$14.40	\$115.20	SHIELD, GROUND (SERRM# 61223) FOR GROUNDING 12-WAY TERMINAL BLOCK				
4	670-788192-4	EA	\$5.20	\$20.80	SHIELD, GROUND (SERRM# 61224) FOR GROUNDING R.H. 3-POST TERMINAL BLOCK				
4	670-809896-4	EA	\$5.20	\$20.80	SHIELD, GROUND (SERRM# 61224-1) FOR GROUNDING L.H. 3-POST TERMINAL BLOCK				
4	670-588967-4	EA	\$34.74	\$138.98	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT				
3	670-688850-4	EA	\$370.27	\$1,110.80	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND				
1	670-645460-4	EA	\$526.00	\$526.00	SHUNT, MULTI-FREQ. #62775-8621 SAFETRAN NARROW BAND				
2	670-806648-4	EA	\$56.42	\$112.84	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546				
2	670-751511-4	EA	\$35.58	\$71.17	SIGN, "1" TRACK, LESS HARDWARE SAFETRAN# 035207-1X				
2	670-006438-4	EA	\$10.54	\$21.08	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN, ONLY IN IA, IN., IL., AL. 035200-555X				
2	670-330382-4	RL	\$10.75	\$21.49	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS, "WARNING STOP DIGGING"				
12	165-917984-4	EA	\$4.22	\$50.60	TERMINAL, TEST, TYPE B GRS A62-515 OR HARMON @32118-001 OR				
12	610-066626-4	EA	\$16.66	\$199.98	ULTRA-TECH 15206-01 CONNECTIVITY BLOCK FOR GRS B1 RELAY				

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Location: JACKSONVILLE IL S&E Proj. No.: 04.0503 AFE No.: Drawing No.: SFDH44840 Vendor: Safetran Systems Corp.

Store No.: P.O. Number: Date Required: Date Shipped:

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Date	Quantity Date	Quantity Date	Quantity Returned (Credit)	Special Instructions
45	670-007238-4	EA	\$137.14	\$6,171.10	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-						
200	465-989111-4	LF	\$0.30	\$59.36	WIRE, NO.10, 1 CONDUCTOR, CASE, FLEXIBLE 37 STRAND, 3/64 IN. INSULATION-ORDER EXT.AMT. NEEDED CR 02-620502						
200	465-989161-4	LF	\$0.17	\$34.80	WIRE, NO.16, 1 CONDUCTOR, CASE, FLEXIBLE, 19 STRAND, 2/64 IN. INSULATION CR 02-620254						
1	670-405488-4	EA	\$29,396.00	\$29,396.00	WIRED RACK, 6X6 FARADAY, COMPLETE/GCP3000D2 DOUBLE TRK, 20 AMP SSCCIII, 4 ISL MOD, 1 SAFTRAN CHARGER, 1 CRAGG CHARGER 2 RELAY RACKS, SAFTRAN P/N T15384,USE WITH I/S 670-786834-4						
2	450-986008-4	EA	\$7.35	\$14.70	WRENCH, TEST POST TYPE B DWG 55393-3, GR.1						
				Total Material	\$117,014.26						